	nanged a file from non-ASCII to ASCII Edited by: Verified by: (ST
Ch	· · · · · · · · · · · · · · · · · · ·
	anged the margins in cases where the sequence text was "wrapped" down to the next line.
Ed	ited a format error in the Current Application Data section, specifically:
Ed ap	ited the Current Application Data section with the actual current number. The number inputted by its plicant was the prior application data; or other
Add	ded the mandatory heading and subheadings for "Current Application Data".
Edi	ited the "Number of Sequences" field. The applicant spelled out a number instead of using an integ
Cha	anged the spelling of a mandatory field (the headings or subheadings), specifically:
Cor	rected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
Inse	erted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
Cor app	rected subheading placement. All responses must be on the same line as each subheading. If the licant placed a response below the subheading, this was moved to its appropriate place.
Ins	erted colons after headings/subheadings. Headings edited included:
Dei	eted extra, invalid, headings used by an applicant, specifically:
De	leted: non-ASCII "garbage" at the beginning/end of files, secretary initials/filename at end of page numbers throughout text; other invalid text, such as
Ins	erted mandatory headings, specifically:
	rrected an obvious error in the response, specifically:
Edi	ted identifiers where upper case is used but lower case is required, or vice versa.
Cor	rrected an error in the Number of Sequences field, specifically:
A "I	Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
Delei due 1	ted <i>endIng</i> stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (er to a PatentIn bug). Sequences corrected:
Oth	

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

46

RAW SEQUENCE LISTING PATENT APPLICATION US/08/487,032A

DATE: 03/25/97 TIME: 10:10:00

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This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING 2 3 (1) General Information: 5 (i) APPLICANT: DOUGLAS SMITH 6 7 (ii) TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO HELICOBACTER PYLORI FOR 9 DIAGNOSTICS AND THERAPEUTICS 10 11 (iii) NUMBER OF SEQUENCES: 880 12 13 (iv) CORRESPONDENCE ADDRESS: 14 (A) ADDRESSEE: LAHIVE & COCKFIELD 15 (B) STREET: 60 State Street 16 (C) CITY: Boston 17 (D) STATE: Massachusetts 18 (E) COUNTRY: USA 19 (F) ZIP: 02109-1875 20 21 (V) COMPUTER READABLE FORM: 22 (A) MEDIUM TYPE: Floppy disk 23 (B) COMPUTER: IBM PC compatible 24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 26 27 (vi) CURRENT APPLICATION DATA: 28 (A) APPLICATION NUMBER: US 08/487,032 29 (B) FILING DATE: 07-JUNE-1995 30 31 (viii) ATTORNEY/AGENT INFORMATION: 32 (A) NAME: Mandragouras, Amy E. 33 (B) REGISTRATION NUMBER: 36,207 34 (C) REFERENCE/DOCKET NUMBER: GTN-001 35 36 (ix) TELECOMMUNICATION INFORMATION: 37 (A) TELEPHONE: (617)227-7400 38 (B) TELEFAX: (617)227-5941 39 40 (2) INFORMATION FOR SEO ID NO:1: 41 42 43 (i) SEQUENCE CHARACTERISTICS: 44 (A) LENGTH: 1527 base pairs 45 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double

PAGE: 2

RAW SEQUENCE LISTING DATE: 03/25/97 PATENT APPLICATION US/08/487,032A TIME: 10:10:04

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47		AN MODOLOGI			•	0 1 5231, 510	.02
47 48		(D) TOPOLOGY	r: Circular				
49	(ii) Me	OLECULE TYPI	E: DNA (gen	omic)			
50	/2225 ***						
51 52	(111) H	YPOTHETICAL	: NO				
53	(iv) A	NTI-SENSE: 1	10				
54	, ,						
55	• •	RIGINAL SOU					
56 57		(A) ORGANIS	4: Helicoba	cter pylori			
5 <i>7</i>	(xi) S	EQUENCE DESC	RIPTION: S	EO TD NO:1:			
59	(/						
60	ATGTGTTCTC	AGGAAATTTT	ATCAAGCTTG	CAAACCATTA	TTGCCGAACA	ATTTTCTATA	60
61		amas aammaa	m., m., , , ama				
62 63	AATATCATCA	CTCAGCTTGC	TAATAAACTC	ACACAAGT TA	AAAATCTAAA	T"I"T"TTTGAG	120
64	AATAAAGACC	ATACTATCAA	GCTTAACACT	ATCCATAACG	GACTGCACAT	CCGCCCCCTA	180
65							•
66	AATTATGTCA	GTAATCTTTT	TTTCAATCTA	CAACGCATTA	TAGGGCTTAT	CAGTCTGTTT	240
67 ′ 68	CCCATATTAT	TTTCCATTAG	ጥ እ ጥጥጥ እ ጥረጥ እ	CCCTTTTATA	ጥር እ መመመመመርር	A A C A CITIC COM	300
69	GOGRIATIAI	TITCCATTAG	IAITIAICIA	CCCITTATAA	IGATITITIC	AACAGIGCCI	300
70	TGTATTCTCA	TTTCCAACCA	TATAGCAAAA	AAACATAGTG	CTTCCATAGA	TAAACTTCAA	360
71							
72 73	GACCAAAAAG	AAAGCATGCA	AAATTACTTA	TACTCTGGAC	TAGATAACCA	AAAGAACAAG	420
74	GACAACCTAT	ТАТТТААСТТ	CATGCTAAAT	TTTCACCATA	AATTTATTGA	AACAAAAGAA	480
75							
76	TTGTATCTCA	ATAATTTTGT	GAAAGTAGCC	CAAAAAAACT	TAATATTTAC	CATATATGCT	540
77 78	C A TICTITUTE A A	ТОХООХОТОТ	3 3 CM 3 MMCC 3	am a mmmmmma		Mamma magem	600
79	GAIGIIIIAA	TCACCACTCT	AAGTATTGCA	CTATTTTTC	TAATGGTTT	TATTATCCTT	600
80	TCAAAATTAA	TTGGTGTGGG	AGCAATTGCT	GGGTATATCC	AAGCATTTAG	CTCTACCCAA	660
81							
82 83	CAACAACTAC	AAGATTTATC	ATTTTATGGA	AAGTGGTTTT	TTGCTATCAA	TAAATACTTT	720
84	GAAAATTATT	ТСТСТАТТТТ	AGATTACAAA	ATACCGAAAC	CAGAAACACA	AATCAAATTA	780
85						1211 011111111111	, , ,
86	GAAGAAAAA	TCCATAGCAT	TACATTTGAA	AATATTAGTT	TCTCTTATCC	TAATTCAAAA	840
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89	CTTATTTTTG	AAAACTTTAA	TCTCTCTTTA	CACTCTAATA	AAATTTATGC	ATTAGTCGGC	900
90	AAGAATGCTA	GCGGAAAAAG	CACGCTGATT	AATTTATTAT	TAGGTTTTTA	TACCCCAAAT	960
91	•		•				
92	TCAGGTCAAA	TTATCATTAA	TAACAAATAC	CCATTACAAG	ACTTGGAACT	AAATAGCTAC	1020
93 94	САТСААСААА	талатассат	ል ጥጥጥሮል አር አጥ	ጥጥጥጥርጥርጥጥጥ	እጥርርጥርርርጥእ	TAGCATTGAT	1080
95	JAI OMORAN	LONGIGUENI	candal	1111010111	AIGCIGGGIA	INSCRITORI	1000
96	GATAATCTTT	TTATGCAAAA	CAATATCACT	AAAGAGCAAT		AAGAGAAATA	1140
97	am	mma.m-1		mamamassa			
98 99	CTAAAATCTT	TTGATGAGAA	TTTTCAAAAT	TGTCTTAATG	ATTGCAACAA	CACACTATTT	1200

PAGE: 3 COMPANY COMMENTS

RAW SEQUENCE LISTING PATENT APPLICATION US/08/487,032A TIME: 10:10:08

DATE: 03/25/97

INPUT SET: S16452.raw GGAGCGCAAT ATAATGGGGT AGATTTTTCT TTAGGTCAAA AGCAACGCAT AGCTACCATG AGAGCCTTTT TAAAACCAAG TAATTGCATT GTTTTAGATG AGCCAAGCAG CGCCATCGAT CCCATTATGG AAAAAGAGTT TTTAGATTTT ATTTTTAAAA AATCGCAATC TAAGATGGCT TTAATTATTA CACACCGCAT GAATAGTGTC AAGCAAGCTA ATGAAATTAT CGTGTTAGAT CAAGGCAAAC TAATAGAACA GGGCAACTTT GAAACCCTTA TGAAAAAACA GGGATTATTT TGCGAATTGT TTTTGAAACA ACAATAC (2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: circular (ii) MOLECULE TYPE: DNA (genomic) (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (vi) ORIGINAL SOURCE: (A) ORGANISM: Helicobacter pylori (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: ATGGAGCGCA AGACGCTCCA GAGCATTTTA TGTTTAATAA AAAAAGAAAT GATGAGACCA AAAGGTATTC TAATGAATTG TTGCAGGSCT TGGAAACACC AGGTTCTTAA GCAAAGCACG ACAGGTTTAG TGGTGTTGAG CATTATCTCT TCTACAGCCC CCTTTATTGG TTTGTTTGGG ACGGTAGTTG AAATTTTAGA AGCGTTTAAC AATTTGGGCG CGTTAGGTCA AGCTTCTTTT GGAGTGATCG CACCCATTAT TTCTAAGGCG CTTATCGCCA CCGCTGCAGG GATTTTAGCA GCCATTCCAG CCTATTCTTT TTACTTGATC TTAAAGCGCA AGGTGTATGA TTTATCGGTT TATGTGCAGA TGCAAGTGGA TATTTTGTCT TCTAAAAAA (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: double

PAGE: 4 RAW SEQUENCE LISTING DATE: 03/25/97 PATENT APPLICATION: US/08/487,032A

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		1NFU1 3E1: 310432.raw
153	(D) TOPOLOGY: circular	
154 155	(ii) MOLECULE TYPE: DNA (genomic)	
156	(==, ==================================	
157	(iii) HYPOTHETICAL: NO	
158		
159	(iv) ANTI-SENSE: NO	
160 161	(vi) ORIGINAL SOURCE:	
162	(A) ORGANISM: Helicobacter pylori	
163	(ii, olidinizmi nozzobadota pytori	
164	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
165		
166	ATGCATGAAC GCATTGAAAG AGGTATTRGA AATAATGAAT GTAAAGAAA	TTTTGGCAAT 60
167 168	GAACTCAAAC AAAGAAAGAC AAAATTGATT GAAGACATAG AACGGCGGT	
169	GRACICARAC ARAGARAGAC ARAATTGATT GAAGACATAG AACGGCGGT	T CAAAGAATGC 120
170	GAGGAACAAT TCCGTGGAAG TGTAGGAAAA AATATTGAAC AACTTGAAG	A AAGAGTTAAA 180
171		
172	GATTCTCTAG CGATTATAAA ACGCATCAAT AACCTTGGTC TTAATCCTA	A TTCTAATTTT 240
173		
174 175	AATATGGATA GCGGCATTGA TACAATAGGC TTATTTAGTT CAATAGGAG	G TTTGGTGTTG 300
176	CTTCTATTGA CGCCTGTAGT AGGTGAGTTT GCGTTAATTG CAGGAGTGG	G TTTAGCATTA 360
177	officialities coordinate additionally desirables endeading	od IIIAGCAIIA 500
178	GTGGGGGTAG GTAAATCAAT ATGGAGTTTT TTTGATTCAG ATTATAAAA	A ATCCCAACAA 420
179		
180	AGAAAAGAAG TGGATAAGAA TTTACATCAA ATTTGCGAAA AATTGTGCA	G GATG 474
181 182		
183	(2) INFORMATION FOR SEQ ID NO:4:	
184	(2) Internation for pag 15 hors.	
185	(i) SEQUENCE CHARACTERISTICS:	
186	(A) LENGTH: 336 base pairs	
187	(B) TYPE: nucleic acid	
188 189	(C) STRANDEDNESS: double	
190	(D) TOPOLOGY: circular	
191	(ii) MOLECULE TYPE: DNA (genomic)	
192	(, , , , , , , , , , , , , , , , , , ,	
193	(iii) HYPOTHETICAL: NO	
194		
195 196	(iv) ANTI-SENSE: NO	
197	(vi) ORIGINAL SOURCE:	
198	(A) ORGANISM: Helicobacter pylori	
199	•	
200	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
201	4	
202 203	ATGCCTGGCG TGTATCAAAT GAGTATAGAG CCTCTTTTAA AAGAATGCG	A AGAATTAGTG 60
203	GGTTTAGGCA TAAAAGCCGT TTTATTGTTT GGCATTCCTA AACATAAGG	A CGCTACAGGA 120
205	THE TRANSPORT TO THE TENT OF T	A COCIMONOUM 120

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PAGE: 53 RAW-SEQUENCE LISTING DATE: 03/25/97 AND DA

	INPUT SET: S164	52.raw
206 207	AGCCATGCGT TAAATAAGGA TCACATTGTC GCAAAAGCTA CGAGAGAAAT TAAAAAACGA	180
208 209	TTTAAGGATT TGATCGTTAT AGCGGATTTG TGTTTTTGCG AATACACCGA CCATGGGCAT	240
210 211	TGCGGGATTT TAGAAAACGC TTCTGTGTCT AACGATAAAA CGCTAAAGAT TTTAAATCTT	300
212 213	CAAGGGCTTA TTTTGCTGAA AGCGGTGTGG ATATTC	336
214		
215	(2) INFORMATION FOR SEQ ID NO:5:	
216	· ·	
217	(i) SEQUENCE CHARACTERISTICS:	
218	(A) LENGTH: 195 base pairs	
219	(B) TYPE: nucleic acid	
220	(C) STRANDEDNESS: double	
221 222	(D) TOPOLOGY: circular	
222	(ii) MOLECULE TYPE: DNA (genomic)	
224	(II) MODECOLE IIPE: DNA (Genomic)	
225	(iii) HYPOTHETICAL: NO	
226	(,	
227	(iv) ANTI-SENSE: NO	
228		
229	(vi) ORIGINAL SOURCE:	
230	(A) ORGANISM: Helicobacter pylori	
231	(in) PRANCING	
232	(ix) FEATURE:	
233 234	(A) NAME/KEY: misc_feature (B) LOCATION: 1195	
235	(D) OTHER INFORMATION: /note= "FLAGELLAR HOOK-ASSOCIATED 1	ו אדקיייסס
236	HAP1"	FROILIN I
237		
238	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
239		
240	GTGGAAAACA ACAAGAGTTT AAAGCATGCG AATGAGTTAA GGGATAAGCG AGATGAATTA	60
241		
242 243	GAGTTTCATT TGCGAGAGCT TTTCGGGGGG AATGTTTTTA AAAGCAGCAT TAAAACCCAT	120
243 244	TCGCTCACAG ATAAAGACTC AGCGGACTTT GATGAGAGCT ATAACCTTAA TATCGGGCAT	100
244	TOGOTOROR ATRANSACTO AGOGGACTTI GATGAGAGOT ATRACOTTAR TATOGGGCAT	180
246	GGGYTCAATA TSATA	195
247		
248		
249	(2) INFORMATION FOR SEQ ID NO:6:	
250		
251	(i) SEQUENCE CHARACTERISTICS:	
252	(A) LENGTH: 1857 base pairs	
253 254	(B) TYPE: nucleic acid	
254 255	(C) STRANDEDNESS: double (D) TOPOLOGY: circular	
255 256	(D) IOPOLOGI: CIICUIAI	
257	(ii) MOLECULE TYPE: DNA (genomic)	
	// /30	

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DD	DD	CC		SSS			22
DD	DD	CC		SS	SS	;	222
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40867	(2)	INF	ORMA'	TION	FOR	SEQ	ID I	8:ON	80:							
40868																
40869	(i) SEQUENCE CHARACTERISTICS:															
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40871	• • • • • • • • • • • • • • • • • • • •															
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40874	74 (ii) MOLECULE TYPE: protein															
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40879		•	•	A) 01				icoba	acte	r pv	lori					
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40882		•	•									•				
40883	Met	Lys	Phe	Phe	Leu	Leu	Lys	Lys	Phe	Ser	Xaa	Phe	Leu	Asn	Thr	Gln
40884	1	•			5		-4 "			10					15	
40885										- •						
40886	Thr	His	Phe	Asn	Leu	Lvs	Ara	Leu	Asn	Ala	Ser	Ser	Phe	Leu	Leu	Glu
40887				20		•			25					30		
40888																
40889	Thr	Phe	Ser	Lys	Glu	Lvs	His	Ala	Phe	Val	Val	Asp	Leu	Ser	Ala	Pro
40890			35	-		4		40					45			
40891																
40892	Tyr	Ile	Gly	Leu	Ser	Lvs	Lvs	Pro	Pro	Glu	Ser	Val	Leu	Lvs	Asn	Thr
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40894																
40895	Leu	Ala	Leu	Asp	Phe	Cvs	Leu	Asn	Lvs	Phe	Thr	Lvs	Asn	Ala	Lvs	Tle
40896	65			•		70			-1-		75	-1-			-1-	80
40897												,				
40898	Leu	Gln	Ala	Asn	Val	Ile	Asp	Asn	Asp	Ara	Ile	Leu	Glu	Tle	Lvs	G1 v
40899					85		-			90					95	1
40900																
40901	Ala	Lvs	Asp	Leu	Ala	Tvr	Lvs	Ser	Glu	Thr	Phe	Tle	Leu	Ara	T.eu	Glu
40902				100		- 2 -	2		105					110	200	014
40903																
40904	Met	Ile	Pro	Lvs	Lvs	Ala	Asn	Leu	Met	Ile	Leu	Asp	Gln	Glu	I.vs	Cvs
40905			115	-4-				120					125		_,_	
40906																
40907 -	Val	Ile	Glu	Ala	Phe	Ara	Phe	Asn	Asp	Ara	Val	Ala	Lys	Asn	Asp	Ile
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40909												- * 0				
40910	Leu	Glv	Ala	Leu	Pro	Pro	Asn	Ile	Tvr	Glu	His	Gln	Glu	Glu	Asp	Len
40911	145	-3				150			- 1 -		155		J_ U		~P	160
40912																100
40913	Asp	Phe	Lvs	Glv	Leu	Leu	Asp	Ile	Leu	Glu	Lvs	Asn	Phe	T.eu	Ser	Tur
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PAGE: 7

RAW SEQUENCE LISTING PATENT APPLICATION US/08/487,032A

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40915															1,5	
40916	Gln	His	Lys	Glu	Leu	Glu	His	Lvs	Lvs	Asn	Gln	Tle	Tle	Lvs	Δra	T.em
40917			-1-	180				-1-	185					190	9	204
40918																
40919	Asn	Ala	Gln	Lvs	Glu	Ara	Leu	Lvs	Glu	Lvs	Leu	Glu	Lvs	Leu	Glu	Asp
40920			195			3		200		-4-			205			
40921																
40922	Pro	Lys	Thr	Leu	Gln	Leu	Glu	Ala	Lys	Glu	Leu	Gln	Thr	Gln	Ala	Ser
40923		210					215		•			220				
40924																
40925	Leu	Leu	Leu	Thr	Tyr	Gln	His	Leu	Ile	Asn	Arg	Arg	Glu	Asn	Arq	Val
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40927																
40928	Ile	Leu	Lys	Asp	Phe	Glu	Asp	Lys	Glu	Cys	Met	Ile	Glu	Ile	Asp	Lys
40929					245					250					255	_
40930																
40931	Ser	Met	Pro		Asn	Ala	Phe	Ile	Asn	Lys	Lys	Phe	Thr	Leu	Ser	Lys
40932				260					265					270		
40933																
40934	Lys	Lys	Lys	Gln	Lys	Ser	Gln	Phe	Leu	Tyr	Leu	Glu	Glu	Glu	Asn	Leu
40935			275					280					285			,
40936	_	_			_	_		_								
40937	Lys		Lys	Ile	Ala	Phe		Glu	Asn	Gln	Ile		Tyr	Val	Arg	Asp
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40940		АТа	Glu	GIU	ser		Leu	GIU	мет	Phe		Pro	Val	Lys	Asn	
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40946	Yaa	T.tre	Xaa	al v	T All	G] v	Tue	Thr	Tue	Tue	7 r~	T1.	C02	Cor	Dho	M
40947	naa	цуз	naa	340	пеа	GLY	цуs	1111	345	որո	Arg	TTE	Ser	350	Pile	ıyı
40948				240					243					330		
40949	Lvs	Thr	Gln	Xaa	Ara	Met	Tle	Xaa	Glv	Cvs	Xaa					
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40951																
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DATE: 03/25/97

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